



U-705 Urethane

ADHESIVE TECHNICAL DATA

Excelsior U-705 Urethane Adhesive is a single component wet-set urethane adhesive used for the permanent installation of all resilient and athletic flooring products over porous and non-porous substrates. When cured it is water resistant and has high shear strength and is the perfect choice for areas with topical moisture, heavy traffic and rolling loads both indoors and outdoors including areas with sunlight and not climate controlled; it is a low odor, non-flammable, solvent-free and ready to use product

Product Type	Wet-Set Urethane Adhesive for porous (absorptive) and non-porous (non-absorptive) surfaces
Characteristics	Cream Colored Paste
Packaging	3 Gallon Unit
Moisture Control Properties	Not a moisture inhibitor or mitigation product
ASTM F2170 - RH Limit	99.9%, <i>in situ</i>
ASTM F1869 - MVER Limit	25 lbs. / 1000 sq. ft. / 24 hours
ASTM F710 - pH Limit	≤ 14
ASTM D6004 - Adhesive Shear Resistance	Excellent
ASTM D6862 - 90° Peel Resistance	Excellent
ASTM D7888 - Plasticizer Resistance	Excellent
ASTM D7149 - Freeze Thaw Stability	Non-Freezing
ASTM F1337 - Shelf Life	1 Years from Manufacturing Date

Reading the Date Code 02 February 2021

Day (02) Month (February) Year (2021)

Located on a white sticker on top of the pail

Service & Storage Temperature 65° - 85° F

Shelf Life depends on proper storage within service & storage temperatures in unopened container

See installation document for full installation details regarding approved substrates, job site conditions and acclimation procedures.

Application Method Trowel Applied

Resilient Flooring Trowel Sizes & Coverage

(Absorptive) Porous Substrates 1/16" x 1/16" x 1/16" V Notch, 160 sq. ft. per Gallon

(Non-Absorptive) Non-Substrates 1/16" x 1/32" x 1/32" U Notch, 225 sq. ft. per Gallon

Athletic Flooring Trowel Sizes & Coverage

(Absorptive) Porous Substrates 3/32" x 3/32" x 3/32" V Notch, 135 sq. ft. per Gallon

(Non-Absorptive) Non-Substrates 1/16" x 1/16" x 1/16" V Notch, 160 sq. ft. per Gallon

Flash Time

(Absorptive) Porous Substrates Immediate

(Non-Absorptive) Non-Substrates 10 - 15 Minutes

Working Time Covered & Rolled within 40 Minutes

Access Times During & After Installation

Heat Welding ≥ 24 Hours
 Light Foot Traffic ≥ 12 Hours
 Heavy Foot Traffic and Rolling Loads ≥ 24 Hours
 Maintenance ≥ 48 Hours

Trowel Notch Dimensions are Depth x Width x Space

Coverage Rates are approximate and subject to level of porosity as well as ambient conditions, angle of the trowel, actual results may vary

Flash time and working time will vary with conditions; higher temps with higher humidity will be shorter than lower temps with lower humidity

Sustainability Information

Contributes to LEED v4/4.1
 ≤ 0.0 grams/liter VOC Content (SCAQMD Rule 1168)
 Meets SCAQMD Rule 1168 Requirements
 Contains No Recycled Content

California Prop 65 Labeling

To the best of our knowledge, this product does not contain any of the listed chemicals, which the state of California has found to cause cancer, birth defects or other reproductive harm

The following information is provided as general guidance, always refer to the current installation information on the product website for the resilient flooring being installed for complete information

Approved Flooring Products

Rubber Tiles & Sheet
 LVT/LVP
 Solid Vinyl Tile
 Quartz Tiles
 Resilient Stair Treads
 Athletic Flooring
 Recycled Crumb Rubber Products
 Underlayments

Approved Substrates & Surfaces

Concrete above, on, or below grade; properly prepared for moisture sensitive resilient flooring in place a minimum of 45 days
 APA rated plywood underlayment
 Properly prepared Portland cement based patches & underlayments
 Properly prepared Gypsum cement based underlayments
 Properly prepared VCT, VAT, Quartz Tile, Solid Vinyl Tile, Vinyl Sheet Goods
 Properly prepared Ceramic Tiles
 Properly prepared Stone & Terrazzo Tiles
 Properly prepared Steel & Aluminum
 Epoxy Mitigation & Sealers (100% solid and fully cured)
 Stained concrete that is sound, smooth and free of waxes, cleaners and any other bond inhibiting substances
 Radiant heated sub-floors

Site Requirements	<p>During acclimation, the site must be fully enclosed, weather tight, and material must be in the installation area with the HVAC system functional and operating at desired service temperatures for a period of 48 hours prior to installation, during the installation and for the service life of the installation afterwards.</p> <p>It is recommended to maintain an ambient relative humidity between 40% and 60% for a period of 48 hours prior to installation, during the installation and for the service life of the installation afterwards.</p>
Substrate Requirements	<p>All substrates must be prepared according to the information contained within the product installation instructions.</p> <p>Concrete substrates, whether on-grade and/or below grade must have an intact and effective moisture vapor barrier which meets the current requirements of ASTM E1745.</p> <p>Substrates must be clean, smooth, permanently dry, flat, and structurally sound.</p> <p>Substrates must be free of visible water or moisture, dust, sealers, paint, sweeping compounds, curing compounds, residual adhesives, concrete hardeners or densifiers, solvents, wax, oil, grease, asphalt, visible alkaline salts or excessive efflorescence, mold, mildew and any other extraneous coating, film, material or foreign matter.</p>
Adhesive Clean-Up	<p>Uncured Adhesive can be removed with solution of 70% isopropyl alcohol and a clean cloth.</p> <p>Cured adhesive will be difficult to remove from wall and flooring surfaces, ensure removal prior to curing.</p>
Product & Substrate Restrictions	<p>Not designed for use with products manufactured with polyolefin, polyethylene, or polypropylene.</p> <p>Not designed for use on substrates that have been exposed to adhesive removers, solvents, or chemical cleaners.</p>
Disposal	<p>Disposal in accordance with local, state and federal regulations.</p> <p>Do not allow product to get into drains, watercourses, or landfills.</p> <p>Hardened product residues are considered construction waste.</p> <p>Empty packaging is recyclable.</p>
Product Warranty	<p>1 Year Manufacturers Warranty</p> <p><i>See product warranty for full details regarding bond warranty, limitations, and warranty coverage.</i></p>
Technical Support	<p>solutions@rhctechnical.com</p>
Product Support	<p>solutions@rhctechnical.com</p>
Technical Documentation	<p>www.excelsiorproducts.net</p>